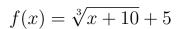
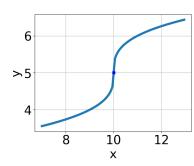
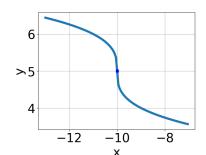
1. Choose the graph of the equation below.

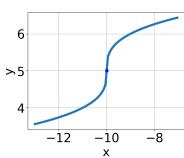




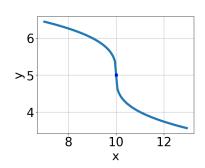


A.

В.



C.

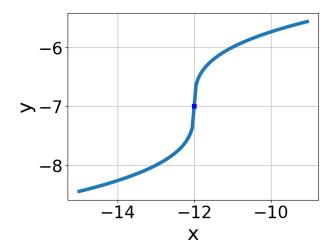


D.

- E. None of the above.
- 2. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-32x^2 - 56} - \sqrt{88x} = 0$$

- A. $x_1 \in [-2.57, -1.51]$ and $x_2 \in [-2.7, 0.5]$
- B. $x \in [-1.08, -0.6]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x_1 \in [0.74, 2.1]$ and $x_2 \in [-0.2, 3.2]$
- E. $x \in [-2.57, -1.51]$
- 3. Choose the equation of the function graphed below.



A.
$$f(x) = \sqrt[3]{x - 12} - 7$$

B.
$$f(x) = -\sqrt[3]{x - 12} - 7$$

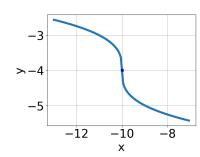
C.
$$f(x) = \sqrt[3]{x+12} - 7$$

D.
$$f(x) = -\sqrt[3]{x+12} - 7$$

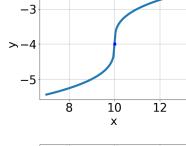
E. None of the above

4. Choose the graph of the equation below.

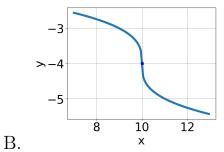
$$f(x) = -\sqrt[3]{x - 10} - 4$$



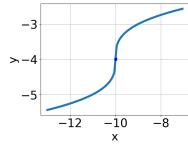








D.



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E. None of the above.

5. What is the domain of the function below?

$$f(x) = \sqrt[8]{3x + 8}$$

- A. $(-\infty, a]$, where $a \in [-0.38, 1.62]$
- B. $[a, \infty)$, where $a \in [-3.1, -1.8]$
- C. $[a, \infty)$, where $a \in [-0.7, 0.7]$
- D. $(-\infty, a]$, where $a \in [-8.67, -1.67]$
- E. $(-\infty, \infty)$

6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{4x+5} - \sqrt{6x+3} = 0$$

- A. $x \in [2.5, 4.7]$
- B. $x_1 \in [-1.8, -0.8]$ and $x_2 \in [1, 3]$
- C. $x_1 \in [-1.8, -0.8]$ and $x_2 \in [-1.5, 0.5]$
- D. $x \in [-0.6, 2]$
- E. All solutions lead to invalid or complex values in the equation.
- 7. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{3x+9} - \sqrt{5x-9} = 0$$

- A. $x \in [6, 11]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x_1 \in [-5, -1]$ and $x_2 \in [0.8, 3.8]$

D. $x_1 \in [-5, -1]$ and $x_2 \in [5, 14]$

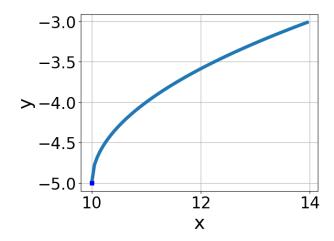
E.
$$x \in [-2, 5]$$

8. What is the domain of the function below?

$$f(x) = \sqrt[8]{8x + 6}$$

- A. $[a, \infty)$, where $a \in [-1.77, -1.02]$
- B. $[a, \infty)$, where $a \in [-1.06, -0.68]$
- C. $(-\infty, \infty)$
- D. $(-\infty, a]$, where $a \in [-1.91, -1.11]$
- E. $(-\infty, a]$, where $a \in [-1.07, -0.23]$

9. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt{x 10} 5$
- B. $f(x) = -\sqrt{x 10} 5$
- C. $f(x) = \sqrt{x+10} 5$
- D. $f(x) = -\sqrt{x+10} 5$
- E. None of the above

10. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-6x^2 + 48} - \sqrt{12x} = 0$$

- A. $x_1 \in [-1, 11]$ and $x_2 \in [3.4, 5.9]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x_1 \in [-6, 0]$ and $x_2 \in [1.7, 3.1]$
- D. $x \in [-6, 0]$
- E. $x \in [-1, 11]$